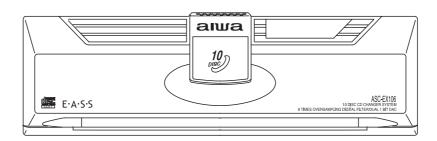


ADC-EX108 YZ ADC-M105 YL,YH



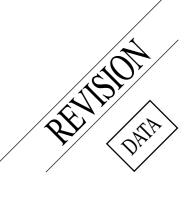
SERVICE MANUAL

STEREO CAR CD CHANGER SYSTEM

BASIC CD MECHANISM: 8ZG-4 RNF

• This Service Manual is the "Revision Publishing" and replaces "Simple Manual", (S/M Code No. 09-003-404-5T7).





SPECIFICATIONS

<Compact disc changer> System

Compact disc digital audio system

Frequency Response Wow and flutter

5 Hz - 20 kHz Below measurable limit

Signal to noise ratio 91 dB or more

Outputs Line output (for changer connector only)

Operating temperature Dimensions

-10 °C to 55 °C 254 x 83 x 173mm (w/h/d) (10 x 3 ³/₈ x 6 ⁷/₈ in.) 2.1 kg (4.62 lbs.) 12 V DC car battery Weight Power requirement

(negative ground)
1 bit DAC, 8 times over sampling D/A converter Sampling rate

44.1 kHz Disc size 120 mm

• Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

| REF. NO. | PART NO. | KANRI | DESCRIPTION | |
|----------|---------------|-------------|----------------------|-------------------|
| | | NO. | | |
| 1 | 8Z-KM3-914-01 | IB,YL(| 3L) M105-I <yl></yl> | |
| 1 | 8Z-KM3-915-01 | 10 IB, YZ (| 9L) 108,M105-I | <yz></yz> |
| 1 | 8Z-KM3-916-01 | 10 IB, YH, | Y(E CK CH A) 10 | 8M105-I <yh></yh> |
| 2 | 87-B10-208-01 | LO VWWS+4 | -12 BLK | |
| 3 | 8Z-KM1-210-11 | O PLATE, | UNIT ASSY | |
| | | | | |
| 4 | 8Z-KM1-218-01 | 10 NUT,5 1 | HEX-FLANGE | |
| 5 | 8Z-KM1-209-01 | LO HLDR, UI | NIT 10A | |
| 6 | 8Z-KM1-216-01 | LO HLDR, UI | NIT 10B | |
| 7 | 8Z-KM4-651-01 | O CABLE | ASSY, 13PIN-DIN | |

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
 - Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION

L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

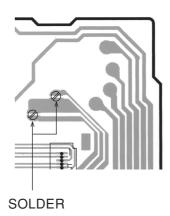
Precaution to replace Optical block

(KSS-710A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP ASSY P.C.B



SERVICE JIG AND TOOLS

1. How to Use the Repair Jig

Use the following repair jig kit for servicing.

| | Part name | Part code |
|-------------------|---------------|----------------|
| For 10 CD changer | JIG-ADC-EX106 | SV-J00-090-010 |

The kit contains the following parts (Refer to Fig-1);

| 1. | FFC (26P/25 cm) | 1 pcs |
|----|-----------------------|-------|
| 2. | P.W.B. FLEX | 1 pcs |
| 3. | P.W.B. JIG | 1 pcs |
| 4. | TRANSISTOR (2SD-2395) | 1 pcs |
| 5. | P.W.B. KEY | 1 pcs |

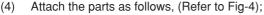
- (1) Remove the cabinet as follows;
 - 1) Remove the CABI BOTTOM by removing the four screws VTT+2.6-6B (Refer to Fig-2).

(2) Remove the P.W.B. MAIN as follows;

- 1) Remove all terminals of the transistor Q623 (2SD2395) by unsoldering them.
- 2) Remove the two motor wires (BLU/WHT).
- Remove the two wires (BLK/BRN) of the sensor (PD201).
- 4) Remove the P.W.B. MAIN from the unit by removing the four screws V+2-3.
- 5) Disconnect the FFC of pickup from CN101.
- 6) Disconnect the PWB FLEX from CON1.
- Remove the LED (LED201,GL380) from the P.W.B. MAIN.
- 8) Remove the sensor (PS201,SENR GP1S94) from P.W.B. MAIN.



1) Install the P.W.B. JIG into the unit and fix it with screws. (Refer to Fig-3).



- 1) Attach the supplied transistor to the location of the P.W.B. MAIN from which Q623 is removed in step (2).
- 2) Connect the supplied PWB FLEX to CON1.
 When the CONTROL UNIT is not used, use the P.W.B. KEY instead. (Refer to step (6), How to use the repair jig.)
- Connect the FFC cable to CON101 and pickup.
 (The supplied FFC cannot be used because pitches and number of pins are different.)

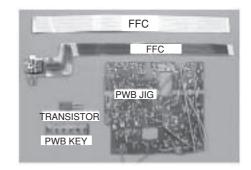


Fig-1

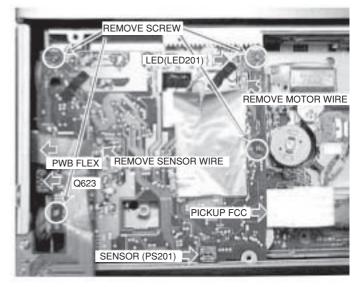


Fig-2



Fig-3

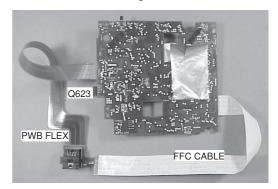


Fig-4

- (5) Perform wirings to the C.Bs. Refer to Fig-5/-6;
 - Be sure to connect the wires coming from the P.W.B. JIG to the same connecting points on the MAIN C.B as follows.
 - Connect the motor wires and sensor (PD201) wires that are removed in step (2) to the P.W.B. JIG.
 - Connect all wires coming from the P.W.B. JIG to the respective lands of the MAIN C.B by soldering.
 - Connect the motor wires (BLU/WHT) of the P.W.B. JIG to the motor wire connecting lands on the MAIN C.B by soldering.
 - Connect the LED (LED201) wires (RED/GRY) of the P.W.B. JIG to the LED wire connecting lands on the MAIN C.B by soldering.
 - Connect the sensor wires (BRN/BLK) of the P.W.B. JIG to the sensor wire connecting lands on the MAIN C.B by soldering.
 - Connect the sensor (PS201) wires (YEL/ORG/ RED/BRN) of the P.W.B. JIG to the sensor wire connecting lands on the MAIN C.B by soldering.
 - Connect the SW202 wire (WHT) of the P.W.B. JIG to the SW202 wire connecting lands on the MAIN C.B by soldering.
 - Connect the SW203 wire (BLK) of the P.W.B.
 JIG to the SW203 wire connecting lands on the MAIN C.B by soldering.
 - Connect the SW204 wires (BLU/WHT) of the P.W.B. JIG to the leads of SW204 on the MAIN C.B by soldering. Refer to Fig-6.



When the Control Unit (CDC/CT) is going to be used.

- After all wires and connections are complete, connect the Control Unit (CDC/CT) with the DIN jack of the P.W.B. FLEX.
- Connect external power +12 V to ACC/BACKUP wire and ground (-) to the GROUND wire.
- 3) Perform the operation check.

When the Control Unit (CDC/CT) is not used.

- Connect the supplied P.W.B KEY to the MAIN C.B by performing all connections between them. Refer to Fig-7/-8.
 (Wires to be used for connecting the MAIN C.B are not supplied.)
- 2) Connect the wires as follows. Refer to Fig-9.

| P.W.B KEY | MAIN C.B |
|-----------|----------|
| НОТ | ТО |
| GND | GND |

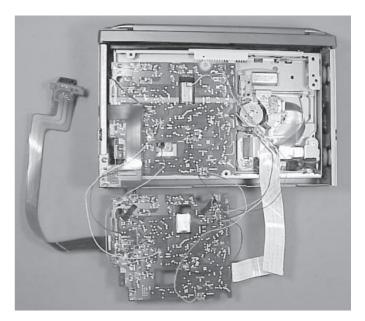


Fig-5

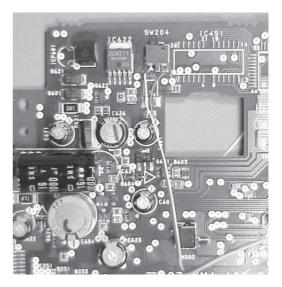


Fig-6

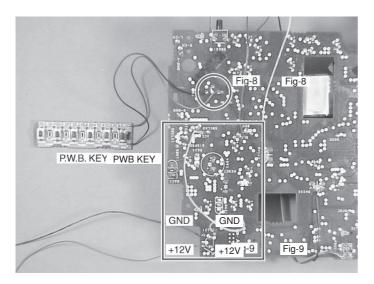
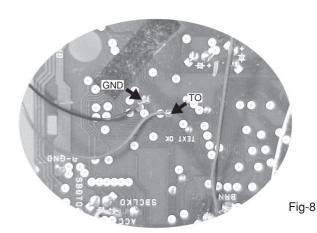


Fig-7

- 2) Connect the wires as follows (Refer to Fig-9);
 - Connect wire for +12 V power to BACK UP of ICP601 by soldering.
 - Connect ICP601 and ACC pattern land by soldering a wire.
 - Connect GND by soldering a wire.
 - Connect the +12 V power to the ACC/BACK UP wire and connect ground (-) to the GROUND wire of the connector (Wires to be used for connection are not supplied.)



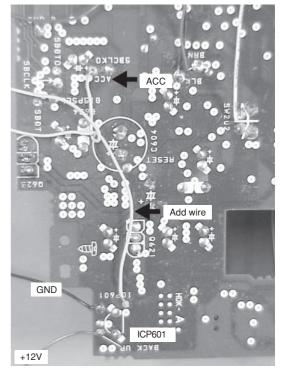


Fig-9

3) Perform the operation check (Refer to Fig-10). The P.W.B Key has the following pin assignment.

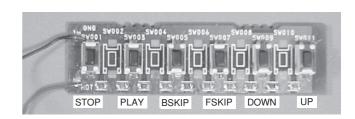


Fig-10

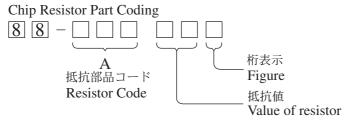
ELECTRICAL MAIN PARTS LIST

| REF. NO. | PART NO. KA | ANRI DESCRIPTION | | REF. NO. | | Kanri No. | DESCRIPTION |
|--------------------------------------|--|--|-----|--|--|-------------------------------|--|
| IC | | | | C305 C306 | 87-015-696-040 87-015-696-040 | CAP,E | 2.2-50 SRA 2.2-50 SRA |
| | 87-A20-892-010 87-A21-467-010 8Z-KM3-691-010 87-A21-158-040 | C-IC,CXD2588R C-IC,CXA2581N C-IC,CXP84632-143Q C-IC,TC74HC365AF | | C307 C308 C321 | 87-010-178-080 87-010-178-080 87-010-555-040 | CHIP C | AP 1000P AP 1000P 100-10 |
| | 87-017-888-080 | IC,NJM4558MD | | C322 C323 | 87-016-669-080 87-010-550-040 | CAP, E | S 0.1-25 K B 100-6.3 GAS |
| | 87-A21-161-040 87-A21-162-040 87-A21-102-040 87-A21-190-040 | C-IC,BA6392FP C-IC,BA6247FP C-IC,S-80828ANNP-EDR-T2 C-IC,PQ20WZ1U | | C324 C325 C501 | 87-016-669-080 87-010-550-040 87-010-555-040 | CAP, E | S 0.1-25 K B 100-6.3 GAS 100-10 GAS |
| TRANSIST | OR. | | | C503 C505 C506 | 87-016-669-080 87-010-178-080 87-A11-257-010 | CHIP C | S 0.1-25 K B AP 1000P 470U-10M |
| | 87-A30-248-040 89-110-372-080 | C-TR,2SB1197KQ TR,2SA1037KR | | C551 C552 | 87 - 010 - 555 - 040 87 - A11 - 257 - 010 | CAP, E | 100-10 M 5L 470U-10M |
| | 87-026-648-080 89-327-125-080 87-A30-272-040 | C-TR, UPA608T CHIP TR, 2SC2712GR C-TR, DTA124EKA | | C553 C554 C555 | 87-016-669-080 87-016-669-080 87-016-669-080 | C-CAP, C-CAP, | S 0.1-25 K B S 0.1-25 K B S 0.1-25 K B |
| | 87-A30-273-040 87-A30-274-040 | C-TR,DTC124EKA C-TR,2SD1622S-TD | | C556 C601 | 87-016-669-080 87-010-552-040 | CAP, E | S 0.1-25 K B 22-16 GAS |
| | 87-A30-317-080 89-423-952-010 87-A30-371-040 | TR,2SA1702 TR,2SD2395E C-TR,2SD1623 | | C602 C603 C604 | 87-A10-368-080 87-010-552-040 87-010-782-010 | CAP, E | S 2.2-10 Z F 22-16 GAS 0.047F-5.5 Z 70 |
| DIODE | | | | C605 C606 | 87-016-669-080 87-A10-368-080 | | S 0.1-25 K B S 2.2-10 Z F |
| | 87-A40-250-040 87-A40-196-080 | CHIP-DIODE, DAN217 C-ZENER, UDZ6.2B | | C621 C622 C623 | 87-010-552-040 87-010-555-040 87-010-555-040 | CAP, E | 22-16 GAS 100-10 M 5L 100-10 M 5L |
| | 87-020-331-080 87-A40-524-040 87-070-136-080 | CHIP-DIODE, DAN202K C-DIODE, 1SR154-400 ZENER, MTZJ5.1B | | C624 C625 | 87-010-260-080 87-016-669-080 | CAP,E C-CAP, | 47-25 M 11L SME S 0.1-25 K B |
| | 87-A40-437-080 | ZENER, MTZJ4.3B | | C626 C631 C632 C901 | 87-016-044-040 87-010-555-040 87-010-552-040 87-010-197-080 | CAP, E | 100-16 GAS 100-10 M 5L 22-16 M 5L S 0.01-25 K B C2012 |
| MAIN C.B | | | | C902 | 87-016-669-080 | C-CAP, | S 0.1-25 K B |
| C102 C103 C104 C105 C106 | 87-010-499-040 87-A12-154-010 87-016-669-080 87-016-669-080 87-016-669-080 | CAP,E 22-6.3 GAS CAP,E 470-4 MA GAS C-CAP,S 0.1-25 K B C-CAP,S 0.1-25 K B C-CAP,S 0.1-25 K B | Λ. | CN101 FC101 FC102 HL201 ICP601 | 87-A61-155-080 8Z-KM3-672-010 8Z-KM3-608-010 8Z-KM1-232-010 87-A91-337-080 | FF-CAB: F-CABL: HLDR,L: | ,30P H XF2H-3015-1 LE, 30P 0.5 145MM E,2P (SENS KM3) ED TOR,IC ICP-N75 |
| C107 | 87-010-184-080 | C-CAP,S 3300P-50 KB | 7:3 | L101 | 87-A50-536-080 | C-COIL | , 10UH K LQH3C24 |
| C108 C109 C110 C111 | 87-016-526-080 87-012-156-080 87-010-184-080 87-010-992-080 | C-CAP,S 0.47-16 BK C-CAP,S 220P-50 CH CHIP CAPACITOR 3300P(K) C-CAP,S 0.047-25 B | | L151 L152 L201 L301 | 87-A50-536-080 87-A50-536-080 87-A50-536-080 87-A50-536-080 | C-COIL | ,10UH K LQH3C24 ,10UH K LQH3C24 ,10UH K LQH3C24 ,10UH K LQH3C24 |
| C112 C115 | 87-016-669-080 87-012-154-080 | C-CAP,S 0.1-25 K B C-CAP,S 150P-50 CH | | L501 L551 | 87-A50-536-080 87-A50-536-080 | C-COIL | ,10UH K LQH3C24 ,10UH K LQH3C24 |
| C116 C117 C118 | 87-012-154-080 87-010-176-080 87-010-176-080 | C-CAP,S 150P-50 CH C-CAP,S 680P-50 SL C-CAP,S 680P-50 SL | | LED201 PS201 SW201 | 87-070-288-010 87-A90-244-010 87-A91-155-010 | SNSR, G | |
| C151 C152 C153 | 87-A10-711-080 87-016-669-080 87-A10-711-080 | C-CAP,E 100-6.3 M MF <yl C-CAP,S 0.1-25 K B C-CAP,E 100-6.3 M MF</yl | > | SW202 SW203 SW204 | 87-036-110-010 87-036-110-010 87-036-312-080 | SW, MIC | RO SPPB62 RO SPPB62 H ESE102MH4-Q |
| C155 C156 | 87 - 016 - 669 - 080 87 - 016 - 669 - 080 | C-CAP,S 0.1-25 K B C-CAP,S 0.1-25 K B | | X101 X200 | 87-A70-163-080 87-A70-200-080 | C-VIB, | CER 16.93MHZ CSTCVMXJ0C4 CER 12MHZ CSTCV12MTJ0C4 |
| C157 C158 C159 | 87-012-156-080 87-010-992-080 87-012-156-080 | C-CAP,S 220P-50 CH C-CAP,S 0.047-25 B C-CAP,S 220P-50 CH | | SENS C.B | | | |
| C161 C162 | 87-016-669-080 87-A12-031-080 | C-CAP,S 0.1-25 K B C-CAP,E 33-10 M MF | | PD201 | 87-026-674-010 | P-TR,P | T4850F |
| C165 C166 C201 | 87-016-669-080 87-016-669-080 87-016-669-080 | C-CAP,S 0.1-25 KB C-CAP,S 0.1-25 KB C-CAP,S 0.1-25 K B | | DIN C.B J901 | 8Z-KM3-638-010 | JACK, D | IN 13 P TCS5125-014151 |
| C202 C251 | 87 - 016 - 669 - 080 87 - 010 - 197 - 080 | C-CAP,S 0.1-25 K B C-CAP,S 0.01-25 KB | | FLEX DIN | | , 2 | |
| C252 C301 C302 | 87-012-140-080 87-010-552-040 | C-CAP, S 470P-50 J CH CAP, E 22-16 GAS | | THE DIM | 8Z-KM3-606-010 | PWB,FL | EX DIN (ZKM3) |
| C302 C303 C304 | 87-010-552-040 87-010-318-080 87-010-318-080 | CAP,E 22-16 GAS C-CAP,S 47P-50 CH C-CAP,S 47P-50 CH | | SW C.B | | | |

| REF. NO. | PART NO. | KANRI | DESCRIPTION | REF. NO. | PART NO. | KA | NRI | DESCRIPTION |
|-----------|----------------|-----------|---------------------|----------|-----------|--------|-----------|----------------|
| | 1 | NO. | | | | NO |). | |
| SW801 | 87-036-269-080 | C-SW, PU | JSH 1-1-1 ESE102MH2 | LIMIT C | . В | | | |
| SW802 | 87-036-312-080 | C-SW, Pt | JSH ESE102MH4-Q | | | | | |
| W803 | 8Z-KM3-625-010 | F-CABLE | 4,4P (SWITCH) | SW803 | 87-036-33 | 12-080 | C-SW, PUS | SH ESE102MH4-Q |
| | | | | W804 | 8Z-KM3-6 | 24-010 | F-CABLE, | ,2P (LIMIT) |
| LED C.B | | | | | | | | |
| | | | | FLEX PI | CK UP C.B | | | |
| CNA800 | 8Z-KM3-623-210 | CONN AS | SSY, 2P (LED) | | | | | |
| CON803 | 87-009-863-010 | CONN, 2 F | WHT ZH | | 8Z-KM4-6 | 31-010 | PWB,FLEX | K PICK UP (AK) |
| LED801 | 87-A40-319-080 | C-LED, I | T1E40A GRN | | | | | |
| LED802 | 87-A40-320-080 | C-LED, I | T1H40A Y | | | | | |
| LED803 | 87-A40-319-080 | C-LED,I | T1E40A GRN | | | | | |
| CONNECT (| T B | | | | | | | |
| 001111201 | | | | | | | | |
| CON801 | 87-A61-155-080 | C-CONN, | 30P H XF2H-3015-1 | | | | | |
| CON802 | 87-A61-240-080 | C-CONN, | 16P H FLZ-RSM1-TB | | | | | |
| M802 | 87-A91-054-010 | MOT, FF- | 050SK | | | | | |
| M803 | 87-A91-054-010 | MOT, FF- | 050SK | | | | | |
| M804 | 87-A90-926-010 | MOT, RF- | 3L0PA | | | | | |

〇チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち



チップ抵抗 Chip resistor

| 容量 | 種類 | 許容誤差 | 記号 | 寸法/Dime | ensions | (mm) | | 抵抗コード : A |
|---------|------|-----------|--------|---------|---------|------|------|-------------------|
| Wattage | Type | Tolerance | Symbol | 外形/Form | L | W | t | Resistor Code : A |
| 1/16W | 1005 | ± 5% | CJ | | 1.0 | 0.5 | 0.35 | 104 |
| 1/16W | 1608 | ± 5% | CJ | L J t | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | ± 5% | CJ | | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | ± 5% | CJ | ľ | 3.2 | 1.6 | 0.55 | 128 |

TRANSISTOR ILLUSTRATION

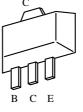


2SA1037 2SB1197 2SC2712 2SD1623 DTA124EKA

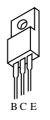
DTC124EKA



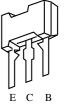
UPA608T



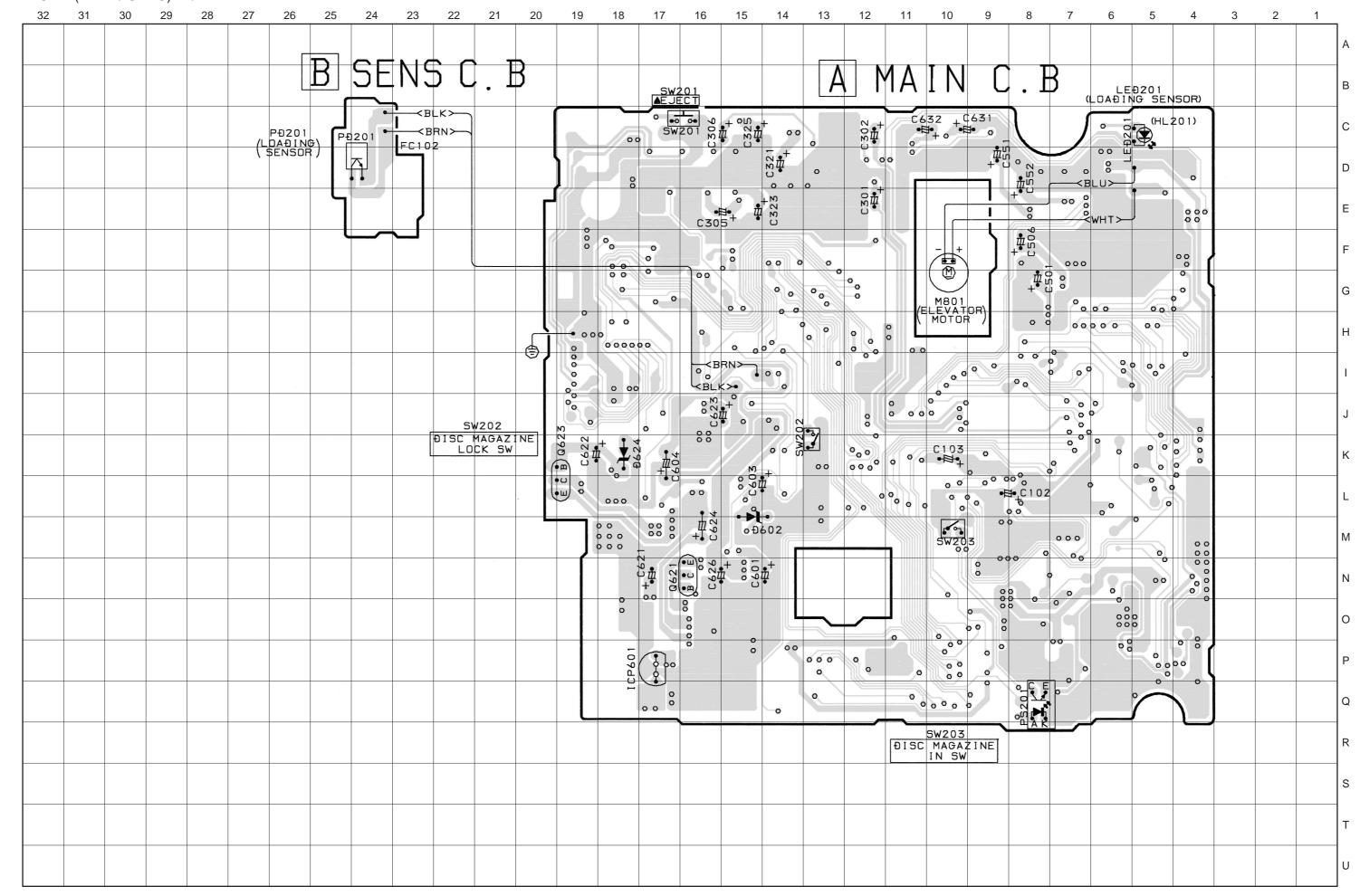
2SD1622

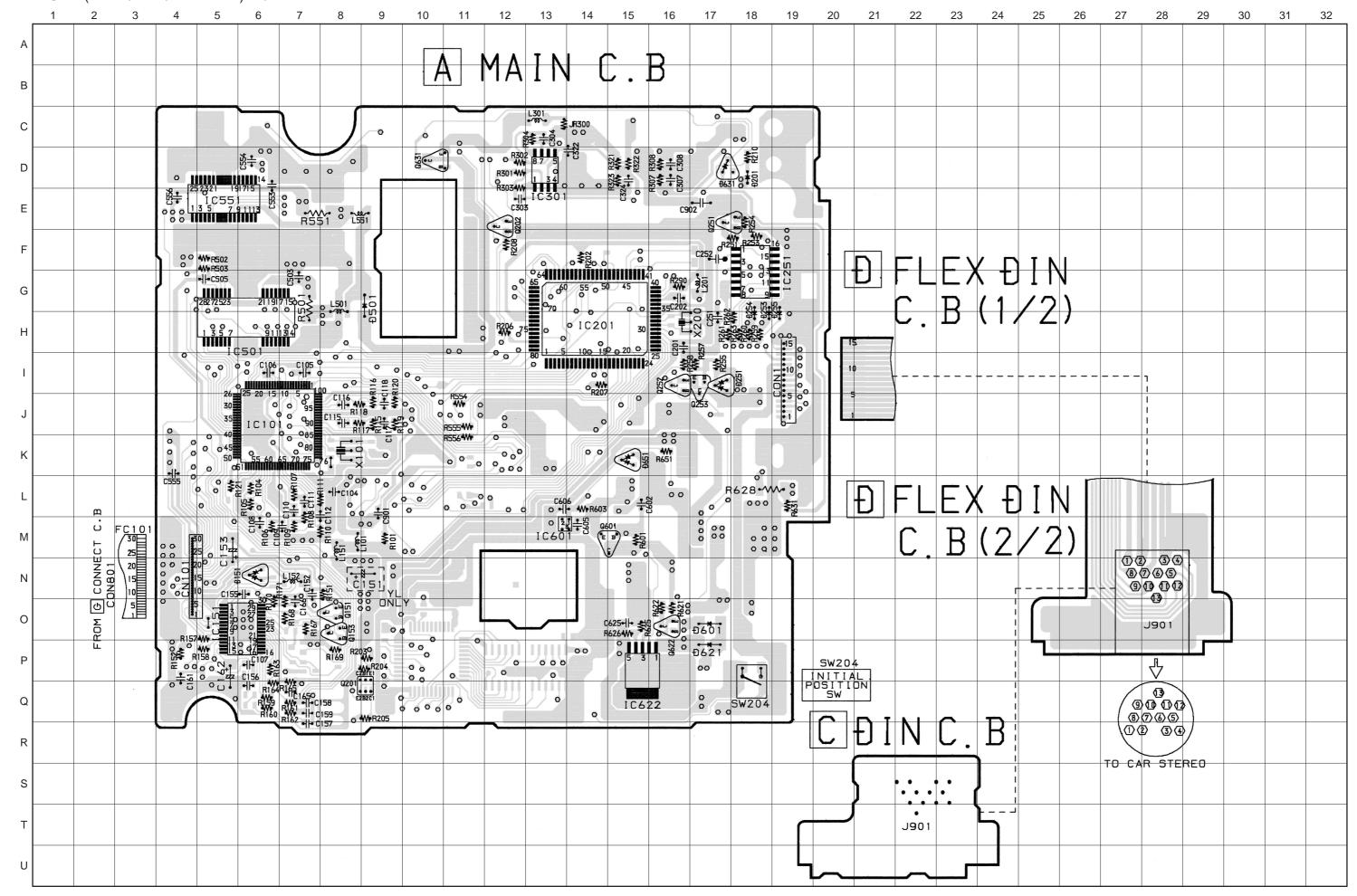


2SD2395



2SA1702





M804

/SPINDLE\

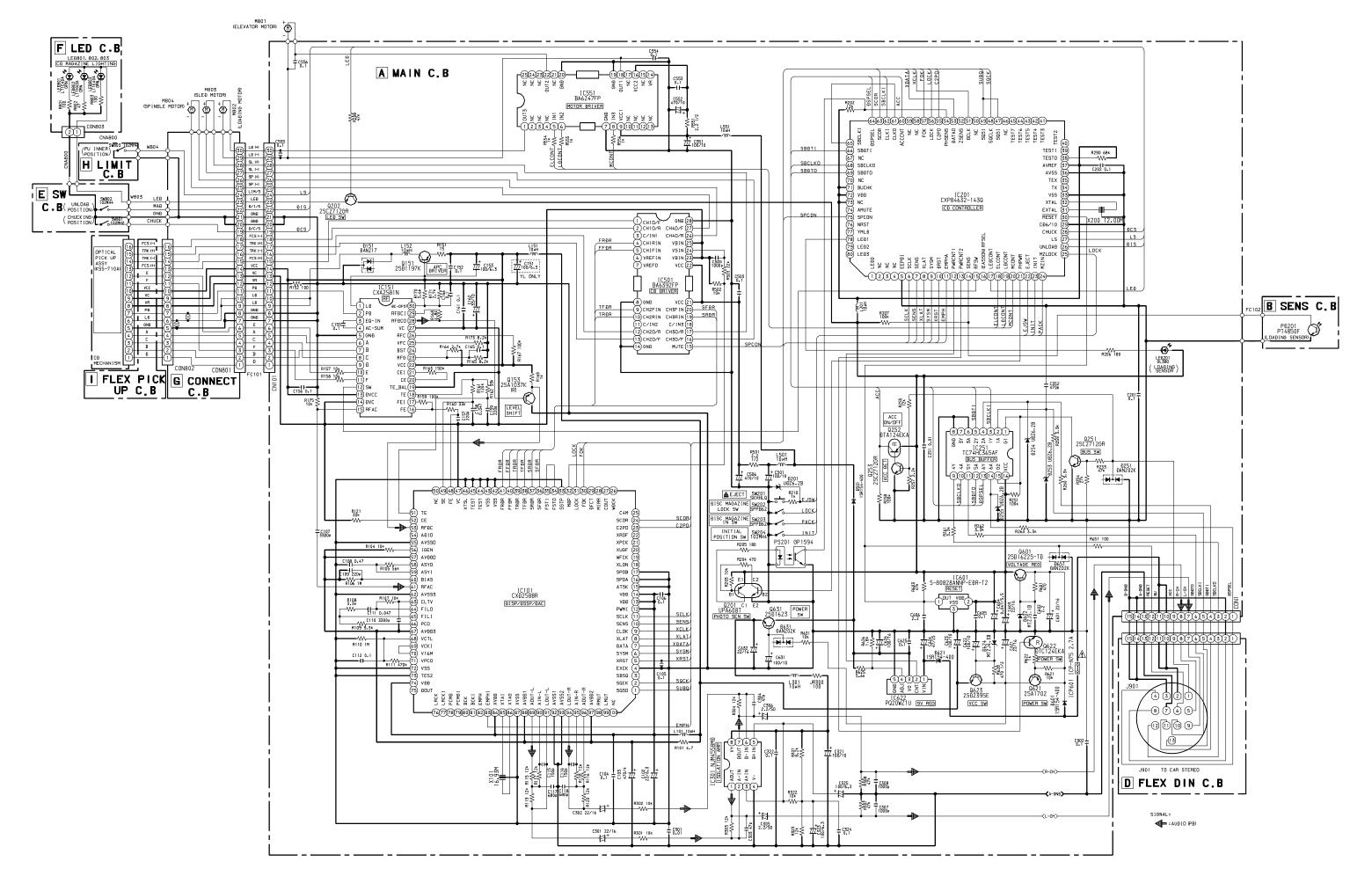
\ MOTOR

(+**•**0•-)

32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |

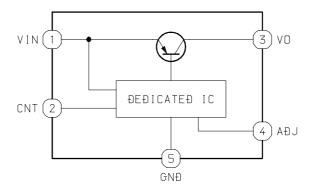
<GRN>

<YEL>

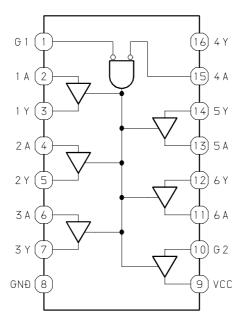


IC BLOCK DIAGRAM

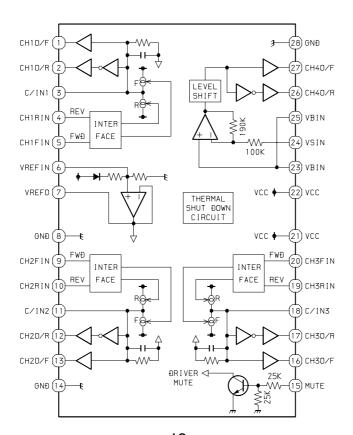
IC, PQ20WZ1U



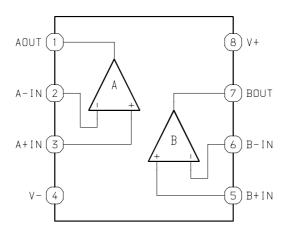
IC, TC74HC365AF



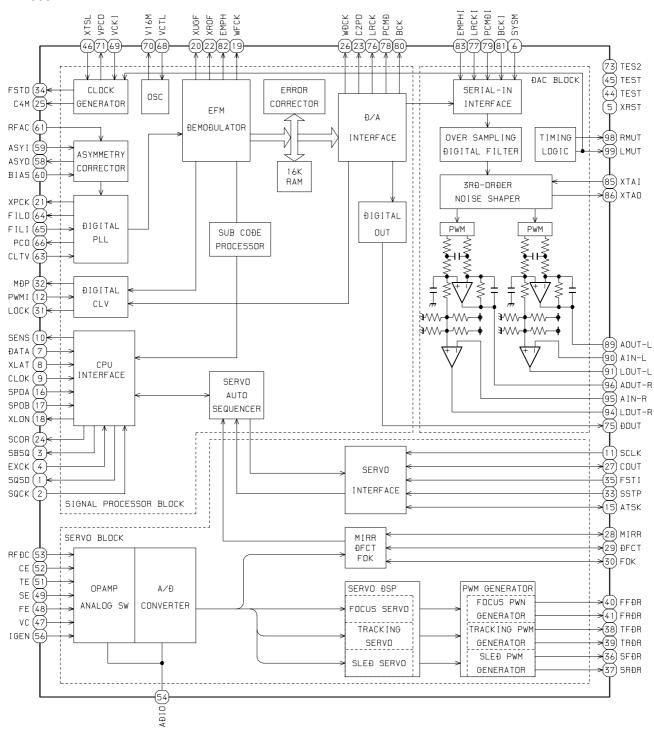
IC, BA6392FP

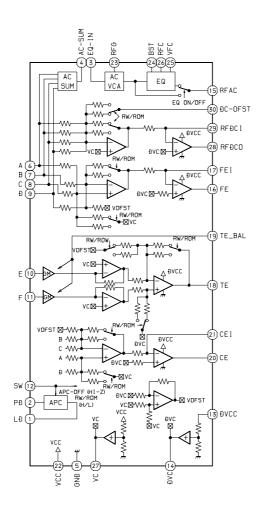


IC, NJM4558MD

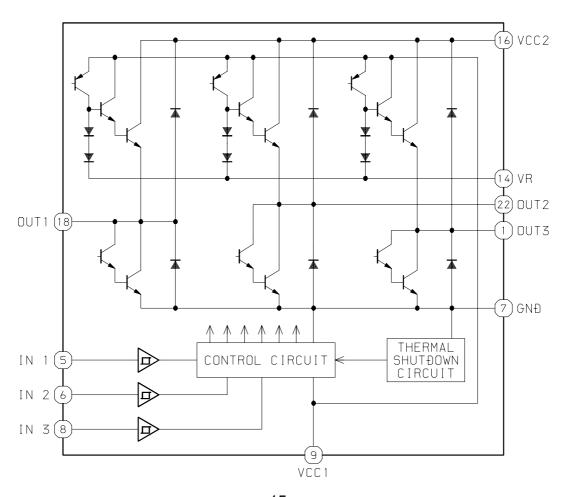


IC, CXD2588R





IC, BA6247FP



IC DESCRIPTION

IC, CXP84632-143Q

| Pin No. | Pin Name | I/O | Description |
|---------|----------------|-----|--|
| 1 ~ 4 | NC | _ | Not connected. |
| 5 | EEPDI | _ | Connected to GND. (Not used). |
| 6 | SCLK | О | SENS read clock out. |
| 7 | SENS | I | SENS in. |
| 8 | XLAT | О | DSP data latch out. |
| 9 | SYSM | О | DSP(DAC) system mute control. (H: MUTE). |
| 10 | DRST | О | DSP IC reset. (L: RESET). |
| 11 | ЕМРНА | О | DSP(DAC) DE EMPHASYS control. (H : ON). |
| 12, 13 | PWRCNT1, 2 | О | POWER control out 1, 2. |
| 14 | SENS | I | DISC IN detect sensor in. |
| 15 | RFSW | О | RFAMP GAIN select out. (H : CD - RW). |
| 16 | (EASSON) RFSEL | О | RFAMP Fs select out. (x2 speed : L). (Not used). |
| 17 | LEDCONT | О | LED on / off out. (H: ON). |
| 18 | ELCONT | О | MOTOR DRIVER control out 1. |
| 19 | LDCONT | О | MOTOR DRIVER control out 2. |
| 20 | MCONT | О | MOTOR DRIVER control out 3. |
| 21 | PHPWR | О | PHOTO SENSOR ON / OFF out. (H : ON). |
| 22 | EJECT | I | EJECT SW in. (Pull 22 ~ 28 SW L : ON). |
| 23 | INIT | I | INITIAL POSITION SW in. |
| 24 | MZIN | I | DISC MAGAZINE IN SW in. |
| 25 | MZLOCK | I | DISC MAGAZINE LOCK SW in. |
| 26 | UNLOAD | I | UNLOAD POSITION SW in. |
| 27 | LS | I | PU INNER POSITION SW in. |
| 28 | CHUCK | I | CHUCKING POSITION SW in. |
| 29 | CD6/10 | I | 6 / 10 DISC selector. (OPEN: 6 disc). |
| 30 | RESET | _ | IC RESET. (L : RESET). |
| 31 | EXTAL | _ | 12 MHz CLOCK. |
| 32 | XTAL | _ | 12 MHz CLOCK. |
| 33 | VSS | _ | IC GND. |
| 34 | TX | _ | Not used. |
| 35 | TEX | _ | Not used. |
| 36 | AVSS | _ | GND. (A/D in GND). |
| 37 | AVREF | _ | VDD. (A/D in Vref). |
| 38 | TEST0 | I/O | TEST MODE select (L) / TEST KEY connect. |
| 39 ~ 42 | TEST1 ~ 4 | _ | Not used. |
| 43 | TEST5 | I | CD TEXT FUNTION select. (L : NO TEXT). (Not used). |
| 44 | TEST6 | _ | Not used. |
| 45 | TEST7 | I | EASS FUNCTION select. (L : NO EASS). (Not used). |
| 46 | NC | _ | Not connected. |
| 47 | SQSI | I | SUBCODE CRC flag check. |
| | <u> </u> | | <u>~</u> |

| Pin No. | Pin Name | I/O | Description | |
|---------|----------|-----|---|--|
| 49 | SQSI | I | SUBCODE DATA in. | |
| 50 | NC | _ | Not connected. | |
| 51 | DCLK | О | DSP / DRAM controller DATA CLOCK out. | |
| 52 | ZSENS | I | DRAM controller DATA in. (Not used). | |
| 53 | DATAO | О | DSP / DRAM controller DATA out. | |
| 54 | PHSENS | I | PHOTO SENSOR in. | |
| 55 | C2PO | I | C2 error flag in. (H : C2 error). | |
| 56 | LOCK | I | LOCK in. (H : SPINDLE SERVO LOCK). | |
| 57 | FOK | I | FOK in (H: FOCUS OK). | |
| 58, 59 | NC | _ | Not connected. | |
| 60 | ACCCNT | I | ACC CONT in. (H:ON). | |
| 61 | CLKO | О | Adjust SERIAL CLOCK out. | |
| 62 | CLKI | I | SERIAL CLOCK in. | |
| 63 | SCOR | I | SUBCODE SYNC in. | |
| 64 | DSPSEL | I | SERIAL BUS enable in. | |
| 65 | SBCLKI | I | Adjust SERIAL CLOCK in. | |
| 66 | SBDTI | I | SERIAL DATA in. | |
| 67 | NC | _ | Not connected. | |
| 68 | SBCLKO | О | SERIAL CLOCK out. | |
| 69 | SBDTO | О | SERIAL DATA out. | |
| 70 | NC | _ | Not connected. | |
| 71 | BUCHK | I | Connected to VDD. (Not used). | |
| 72 | VDD | _ | IC VDD. | |
| 73 | NC | _ | Connected to VDD. | |
| 74 | AMUTE | _ | Not used. | |
| 75 | SPCON | О | MOTOR DRIVER STANDBY control. (L : MUTE). | |
| 76 | NRST | О | DRAM controller IC RESET. (L: RESET). (Not used). | |
| 77 | YMLD | О | DRAM controller DATA LATCH out. (Not used). | |
| 78 | LED1 | О | DISC detect sensor LED on / off. (L : ON). | |
| 79, 80 | LED2, 3 | _ | Not used. | |

VOLTAGE CHART

IC101, CXD2588R

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|-----------|-----------|-----------|
| 1 | DATA LINE | DATA LINE | DATA LINE |
| 2 | 4.56 | 4.56 | 4.56 |
| 3 | 0.11 | 0.11 | 0.11 |
| 4 | 0 | 0 | 0 |
| 5 | 4.60 | 4.60 | 4.60 |
| 6 | 0 | 0 | 0 |
| 7 | DATA LINE | DATA LINE | DATA LINE |
| 8 | 4.59 | 4.59 | 4.59 |
| 9 | 4.57 | 4.57 | 4.57 |
| 10 | 0.03 | 0.03 | 0.03 |
| 11 | 4.61 | 4.61 | 4.61 |
| 12 ~ 14 | 4.06 | 4.06 | 4.06 |
| 15 ~ 18 | 0 | 0 | 0 |
| 19 ~ 20 | 2.03 | 2.03 | 2.03 |
| 21 | 1.92 | 1.92 | 1.92 |
| 22 | 4.06 | 4.06 | 4.06 |
| 23 | 0 | 0 | 0 |
| 24 | 0.05 | 0.05 | 0.05 |
| 25 | 1.92 | 1.92 | 1.92 |
| 26 | 2.00 | 2.00 | 2.00 |
| 27 ~ 28 | 0.01 | 0.01 | 0.01 |
| 29 | 0.04 | 0.04 | 0.04 |
| 30 ~ 31 | 4.06 | 4.06 | 4.06 |
| 32 | 2.25 | 2.25 | 2.25 |
| 33 | 0 | 0 | 0 |
| 34 ~ 35 | 2.25 | 2.25 | 2.25 |
| 36 ~ 41 | DATA LINE | DATA LINE | DATA LINE |
| 42 ~ 46 | 0 | 0 | 0 |
| 47 | 2.02 | 2.02 | 2.02 |
| 48 | 1.98 | 1.98 | 1.98 |
| 49 ~ 50 | 0 | 0 | 0 |
| 51 | DATA LINE | DATA LINE | DATALINE |
| 52 | 2.02 | 2.02 | 2.02 |
| 53 | 2.79 | 2.79 | 2.79 |
| 54 | 1.95 | 1.95 | 1.95 |
| 55 | 0 | 0 | 0 |
| 56 | 1.73 | 1.73 | 1.73 |
| 57 | 3.92 | 3.92 | 3.92 |
| 58 | 1.95 | 1.95 | 1.95 |
| 59 | 1.96 | 1.96 | 1.96 |
| 60 | 0.80 | 0.80 | 0.80 |

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|--------|--------|--------|
| 61 | 1.96 | 1.96 | 1.96 |
| 62 | 0 | 0 | 0 |
| 63 ~ 64 | 2.04 | 2.04 | 2.04 |
| 65 ~ 66 | 1.96 | 1.96 | 1.96 |
| 67 | 3.92 | 3.92 | 3.92 |
| 68 | 0 | 0 | 0 |
| 69 ~ 70 | 1.63 | 1.63 | 1.63 |
| 71 | 0.01 | 0.01 | 0.01 |
| 72 ~ 73 | 0 | 0 | 0 |
| 74 | 4.06 | 4.06 | 4.06 |
| 75 | 0.01 | 0.01 | 0.01 |
| 76 | 2.02 | 2.02 | 2.02 |
| 77 ~ 78 | 2.03 | 2.03 | 2.03 |
| 79 | 1.35 | 1.35 | 1.35 |
| 80 | 1.96 | 1.96 | 1.96 |
| 81 | 2.00 | 2.00 | 2.00 |
| 82 | 4.06 | 4.06 | 4.06 |
| 83 | 4.60 | 4.60 | 4.60 |
| 84 | 4.06 | 4.06 | 4.06 |
| 85 | 0 | 0 | 0 |
| 86 | 1.98 | 1.98 | 1.98 |
| 87 | 0 | 0 | 0 |
| 88 | 3.91 | 3.91 | 3.91 |
| 89 | 0 | 0 | 0 |
| 90 ~ 91 | 1.62 | 1.62 | 1.62 |
| 92 ~ 93 | 0 | 0 | 0 |
| 94 | 1.61 | 1.61 | 1.61 |
| 95 | 1.62 | 1.62 | 1.62 |
| 96 | 1.63 | 1.63 | 1.63 |
| 97 | 3.93 | 3.93 | 3.93 |
| 98 ~ 99 | 4.06 | 4.06 | 4.06 |
| 100 | 0 | 0 | 0 |
| | | | |

IC622, PQ20WZ1U

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|--------|--------|--------|
| 1 | 13.10 | 13.10 | 13.10 |
| 2 | 4.57 | 4.57 | 4.57 |
| 3 | 11.11 | 11.11 | 11.11 |
| 4 | 2.67 | 2.67 | 2.67 |
| 5 | 0 | 0 | 0 |

IC201, CXP84632-143Q

| 10201, 02 | XP84632-143Q | | |
|-----------|--------------|-----------|-----------------|
| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
| 1 | 0 | 0 | 0 |
| 2 ~ 3 | 4.64 | 4.64 | 4.64 |
| 4 ~ 5 | 0 | 0 | 0 |
| 6 | 4.61 | 4.61 | 4.61 |
| 7 | 0.03 | 0.03 | 0.03 |
| 8 | 4.59 | 4.59 | 4.59 |
| 9 | 0 | 0 | 0 |
| 10 ~ 11 | 4.59 | 4.59 | 4.59 |
| 12 ~ 13 | 4.57 | 4.57 | 4.57 |
| 14 | 4.59 | 4.59 | 4.59 |
| 15 | 0 | 0 | 4.6 |
| 16 | 4.63 | 0.09 | 4.63x1 / 0.09x2 |
| 17 | 4.62 | 4.62 | 4.62 |
| 18 ~ 21 | 0 | 0 | 0 |
| 22 ~ 23 | 4.59 | 4.59 | 4.59 |
| 24 ~ 25 | 0 | 0 | 0 |
| 26 ~ 27 | 4.59 | 4.59 | 4.59 |
| 28 ~ 29 | 0 | 0 | 0 |
| 30 | 4.16 | 4.16 | 4.16 |
| 31 | 2.27 | 2.27 | 2.27 |
| 32 | 2.43 | 2.43 | 2.43 |
| 33 | 0 | 0 | 0 |
| 34 | 4.64 | 4.64 | 4.64 |
| 35 ~ 36 | 0 | 0 | 0 |
| 37 | 4.65 | 4.65 | 4.65 |
| 38 | 4.62 | 4.62 | 4.62 |
| 39 ~ 41 | 0 | 0 | 0 |
| 42 | 4.60 | 0 | 0 |
| 43 | 4.60 | 4.60 | 4.60 |
| 44 | 4.60 | 0 | 0 |
| 45 ~ 46 | 4.60 | 4.60 | 4.60 |
| 47 | DATA LINE | DATA LINE | DATA LINE |
| 48 | 4.56 | 4.56 | 4.56 |
| 49 | DATA LINE | DATA LINE | DATA LINE |
| 50 | 0 | 0 | 0 |
| 51 | 4.57 | 4.57 | 4.57 |
| 52 ~ 53 | DATA LINE | DATA LINE | DATA LINE |
| 54 | 4.64 | 4.64 | 4.64 |
| 55 | 0 | 0 | 0 |
| 56 ~ 57 | 4.06 | 4.06 | 4.06 |
| 58 ~ 59 | 0 | 0 | 0 |
| 60 | 4.65 | 4.65 | 4.65 |

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|-----------|-----------|-----------|
| 61 | 4.64 | 4.64 | 4.64 |
| 62 | 0 | 0 | 0 |
| 63 | 0.05 | 0.05 | 0.05 |
| 64 | DATA LINE | DATA LINE | DATA LINE |
| 65 | 4.64 | 4.64 | 4.64 |
| 66 ~ 67 | 0 | 0 | 0 |
| 68 | 4.64 | 4.64 | 4.64 |
| 69 | DATA LINE | DATA LINE | DATA LINE |
| 70 | 0 | 0 | 0 |
| 71 ~ 73 | 4.65 | 4.65 | 4.65 |
| 74 | 0 | 0 | 0 |
| 75 | 4.59 | 4.59 | 4.59 |
| 76 ~ 77 | 4.63 | 4.63 | 4.63 |
| 78 | 4.00 | 4.00 | 4.00 |
| 79 ~ 80 | 0 | 0 | 0 |

IC501, BA6392FP

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|-----------|-----------|-----------|
| 1 | 4.45 | 4.45 | 4.45 |
| 2 | 5.03 | 5.03 | 5.03 |
| 3 | 4.48 | 4.48 | 4.48 |
| 4 ~ 5 | DATA LINE | DATA LINE | DATA LINE |
| 6 | 4.75 | 4.75 | 4.75 |
| 7 | 4.77 | 4.77 | 4.77 |
| 8 | 0 | 0 | 0 |
| 9 ~ 10 | DATA LINE | DATA LINE | DATALINE |
| 11 | 4.73 | 4.73 | 4.73 |
| 12 | 4.71 | 4.71 | 4.71 |
| 13 | 4.76 | 4.76 | 4.76 |
| 14 | 0 | 0 | 0 |
| 15 | 4.59 | 4.59 | 4.59 |
| 16 | 4.78 | 4.78 | 4.78 |
| 17 | 4.69 | 4.69 | 4.69 |
| 18 | 4.76 | 4.76 | 4.76 |
| 19 ~ 20 | DATA LINE | DATA LINE | DATA LINE |
| 21 ~ 22 | 9.90 | 9.90 | 9.90 |
| 23 | 2.03 | 2.03 | 2.03 |
| 24 | 2.22 | 2.03 | 2.03 |
| 25 | 2.03 | 2.03 | 2.03 |
| 26 | 5.02 | 5.02 | 5.02 |
| 27 | 4.36 | 4.36 | 4.36 |
| 28 | 0 | 0 | 0 |

IC551, BA6247FP

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|-----------|-----------|-----------|
| 1 | 0.55 | 0.55 | 0.55 |
| 2 ~ 4 | 0 | 0 | 0 |
| 5 ~ 6 | DATA LINE | DATA LINE | DATA LINE |
| 7 | 0 | 0 | 0 |
| 8 | DATA LINE | DATA LINE | DATA LINE |
| 9 | 10.33 | 10.33 | 10.33 |
| 10 ~ 15 | 0 | 0 | 0 |
| 16 | 10.33 | 10.33 | 10.33 |
| 17 | 0 | 0 | 0 |
| 18 | 0.55 | 0.55 | 0.55 |
| 19 ~ 21 | 0 | 0 | 0 |
| 22 | 0.55 | 0.55 | 0.55 |
| 23 ~ 25 | 0 | 0 | 0 |

IC251, TC74HC365AF

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|-----------|-----------|----------|
| 1 ~ 8 | 0 | 0 | 0 |
| 9 ~ 10 | 4.64 | 4.64 | 4.64 |
| 11 ~ 14 | DATA LINE | DATA LINE | DATALINE |
| 15 | 0 | 0 | 0 |
| 16 | 4.65 | 4.65 | 4.65 |

IC301, NJM4558MD

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|--------|--------|--------|
| 1 ~ 3 | 6.30 | 6.30 | 6.30 |
| 4 | 0 | 0 | 0 |
| 5 ~ 7 | 6.30 | 6.30 | 6.30 |
| 8 | 10.65 | 10.65 | 10.65 |

IC151, CXA2581N

| PIN NO. | CD x 1 | CD x 2 | RW x 1 |
|---------|--------|--------|--------|
| 1 | 2.57 | 2.57 | 2.57 |
| 2 | 0.158 | 0.158 | 0.158 |
| 3 | 2.03 | 2.03 | 2.03 |
| 4 | 2.10 | 2.10 | 2.10 |
| 5 | 0 | 0 | 0 |
| 6 | 2.15 | 2.15 | 2.15 |
| 7 | 2.14 | 2.14 | 2.14 |
| 8 ~ 9 | 2.13 | 2.13 | 2.13 |
| 10 ~ 11 | 2.04 | 2.04 | 2.04 |
| 12 | 0 | 0 | 4.61 |
| 13 | 4.06 | 4.06 | 4.06 |
| 14 | 2.04 | 2.04 | 2.04 |
| 15 | 2.19 | 2.19 | 2.19 |
| 16 | 2.00 | 2.00 | 2.00 |
| 17 | 2.04 | 2.04 | 2.04 |
| 18 | 1.95 | 1.95 | 1.95 |
| 19 | 2.04 | 2.04 | 2.04 |
| 20 | 2.02 | 2.02 | 2.02 |
| 21 | 2.04 | 2.04 | 2.04 |
| 22 | 4.06 | 4.06 | 4.06 |
| 23 | 2.97 | 2.97 | 2.97 |
| 24 | 2.43 | 2.43 | 2.43 |
| 25 | 1.57 | 1.57 | 1.57 |
| 26 | 2.80 | 2.77 | 2.77 |
| 27 | 2.04 | 2.04 | 2.04 |
| 28 | 2.19 | 2.19 | 2.19 |
| 29 | 2.04 | 2.04 | 2.04 |
| 30 | 1.54 | 1.54 | 1.54 |

Q151, 2SB1197KQ

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 3.18 | 3.18 | 3.18 |
| С | 2.18 | 2.18 | 2.18 |
| В | 2.54 | 2.54 | 2.54 |

Q153, 2SA1037K(R)

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 2.80 | 2.80 | 2.80 |
| С | 0 | 0 | 0 |
| В | 2.19 | 2.19 | 2.19 |

Q201, UPA608T

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| E1 | 4.65 | 0 | 4.65 |
| E2 | 0 | 4.64 | 0 |
| C1 | 0 | 4.65 | 0 |
| C2 | 4.64 | 0 | 4.64 |
| B1 | 4.65 | 4.65 | 4.65 |
| B2 | 0 | 0 | 0 |

Q202, 2SC2712GR

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 2.15 | 2.15 | 2.15 |
| С | 4.63 | 4.63 | 4.63 |
| В | 2.83 | 2.83 | 2.83 |

Q251, 2SC2712GR

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 0 | 0 | 0 |
| С | 0 | 0 | 0 |
| В | 0.64 | 0.64 | 0.64 |

Q252, DTA124EKA

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 4.65 | 4.65 | 4.65 |
| С | 4.65 | 4.65 | 4.65 |
| В | 0 | 0 | 0 |

Q253,2SC2712GR

| PIN | CD x 1 | | RW x 1 |
|-----|--------|------|--------|
| Е | 0 | 0 | 0 |
| С | 0 | 0 | 0 |
| В | 0.68 | 0.68 | 0.68 |

Q601, 2SD1622S-TD

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 4.65 | 4.65 | 4.65 |
| С | 13.10 | 13.10 | 13.10 |
| В | 5.23 | 5.23 | 5.23 |

Q621, 2SA1702

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 13.10 | 13.10 | 13.10 |
| С | 13.05 | 13.05 | 13.05 |
| В | 0 | 0 | 0 |

Q622, DTC124EKA

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 0 | 0 0 | |
| С | 0.13 | 0.13 | 0.13 |
| В | 4.57 | 4.57 | 4.57 |

Q623, 2SD2395E

| PIN | CD x 1 | | RW x 1 |
|-----|--------|-------|--------|
| Е | 4.62 | 4.62 | 4.62 |
| С | 13.03 | 13.03 | 13.03 |
| В | 4.07 | 4.07 | 4.07 |

Q631, 2SD1623

| PIN | PIN CD x 1 CD x 2 | | RW x 1 |
|-----|-------------------|-------|--------|
| Е | 11.06 | 11.06 | 11.06 |
| С | 11.10 | 11.10 | 11.10 |
| В | 11.65 | 11.65 | 11.65 |

PD201, PT4850F

| PIN | CD x 1 | CD x 2 | RW x 1 |
|-----|--------|--------|--------|
| Е | 0 | 0 | 0 |
| С | 4.58 | 4.58 | 4.58 |
| В | _ | _ | _ |

TEST MODE

There are two methods to perform operation check using test mode. One method uses the head unit. The other method uses the repair jig. Because different operation buttons must be used for entering the operation modes and there are cases that unit does not run at all, in the method that uses the head unit, the method using the repair jig is described as follows;

How to start up the CD test mode

Connect the P.W.B Key in accordance "SERVICE JIG AND TOOLS" step (6). "How to use the repair jig - When the Control Unit (CDC/CT) is not used".

1) While pressing the STOP button of the P.W.B Key, turn on the +12 V power of ACC/BACK UP.

2. How exit the CD test mode

1) Turn off the +12 V power of ACC/BACK UP.

3. Function description of CD test mode

Uses of the respective buttons of the P.W.B Key are described in Fig-11.

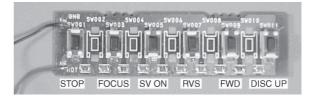
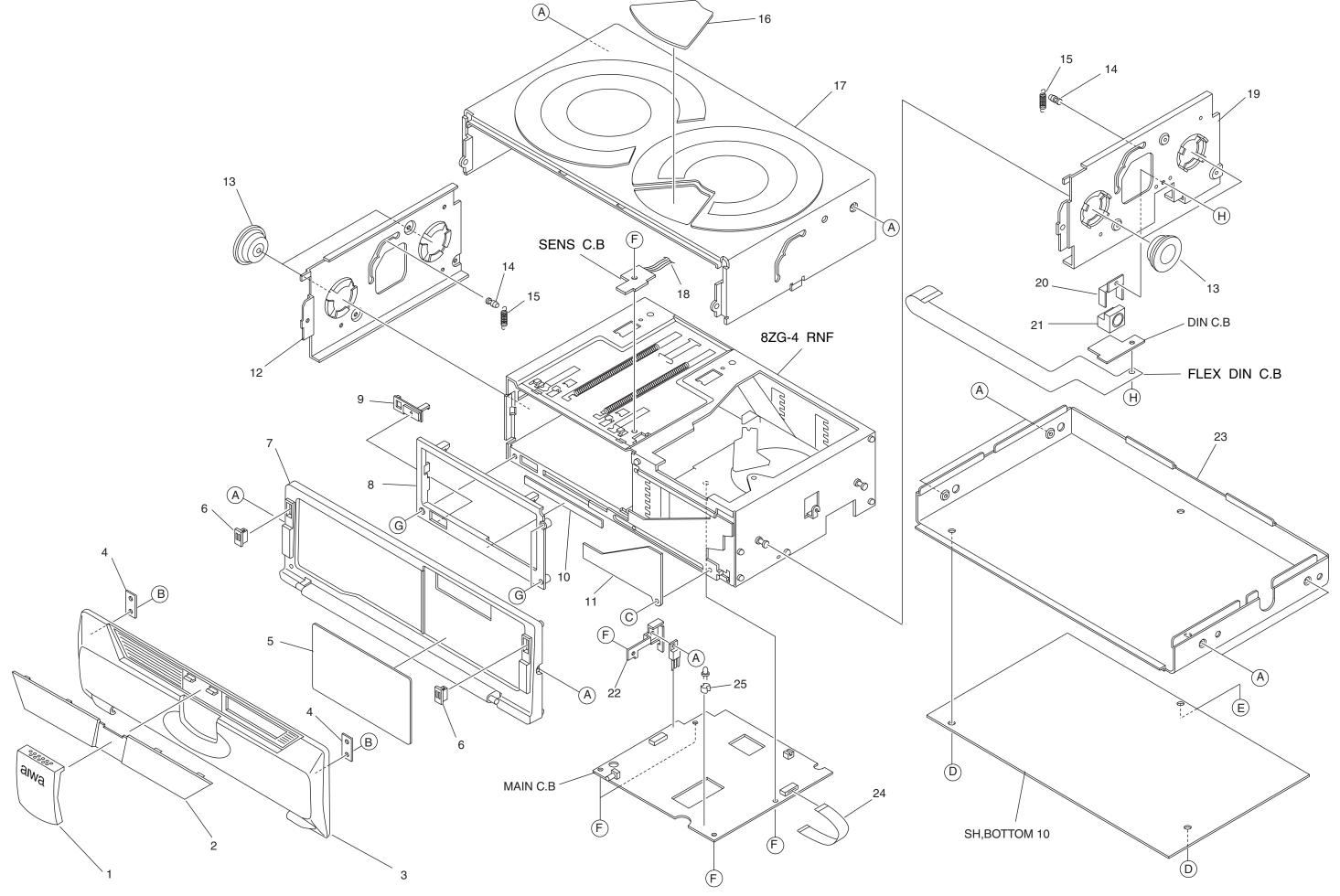


Fig-11

| Mode | Operation key | Operation | Contents |
|-------------|---------------|---|------------------------------------|
| Servo OFF | STOP | All servo off | |
| Search mode | FOCUS | Continuous focus search | APC circuit check |
| | | Pickup lens repeats full swing (Note 1) | Laser current measurement |
| | | | Focus error waveform check |
| Play mode | FOCUS | Normal playback | Focus servo |
| | ₩ | | Tracking servo |
| | SV ON | | CLV servo |
| | | | Sled servo |
| Sled mode | FWD | Pickup moves to outer circumference | Sled servo |
| | RVS | Pickup moves to inner circumference | Mechanism operation check |
| CD change | DISC UP | Disc unload | Mechanism operation check (cyclic) |
| | | ↓ | |
| | | Magazine change | |
| | | ↓ | |
| | | Disc load | |

- During the PLAY mode, the REV, FWD and DISC UP keys are invalid. Press the STOP key once.
- When a Head Unit is connected, the Disc No. and the Track No. are shown on display in the same way as in the normal operation.

Note 1: If the focus search operation is continued for 10 minutes or longer, the driver IC heats up sufficiently to trigger the protection circuit, which stops the CD system. Turn off the main power and re-start operation about 10 minutes later.

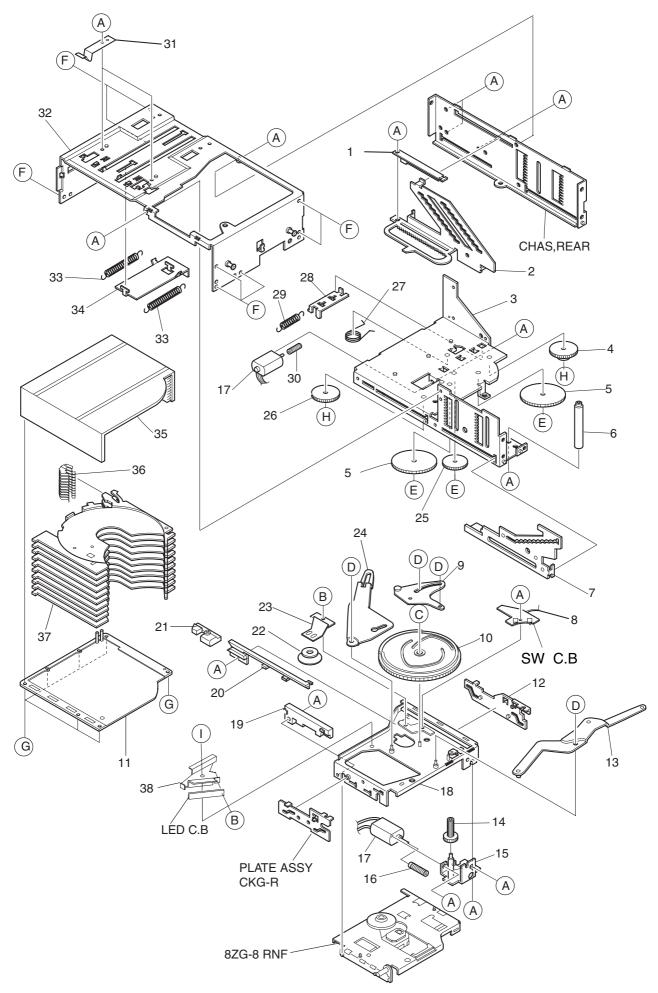


MECHANICAL PARTS LIST 1/1

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|----------|----------------|--------------|--|
| 1 | 8Z-KM1-003-010 | | FRONT 10 |
| | 8Z-KM1-003-010 | | W,FRONT 10 |
| | | | |
| | 8Z-KM3-031-010 | - | FRONT EX108<108YZSF> |
| | 8Z-KM3-039-010 | | FRONT M105 <except 108yzsf=""></except> |
| 4 | 8Z-KM1-207-010 | PLATE | , MAG |
| 5 | 8Z-KM3-034-010 | WINDO | W,DECK EX108<108YZSF> |
| 5 | 8Z-KM3-038-010 | WINDO | W,DECK M105 <except 108yzsf=""></except> |
| 6 | 8Z-KM1-220-010 | MAGNE | T, HLDR ASS'Y |
| 7 | 8Z-KM3-032-010 | CABI, | FRAME 10S |
| 8 | 8Z-KM1-208-010 | COVER | , DECK 10 |
| _ | | | |
| | 8Z-KM1-006-110 | - | |
| | 8Z-KM1-230-010 | | , DECK |
| | 8Z-KM1-217-010 | | , PLATE 10 |
| | 8Z-KM1-203-010 | - | DECK L10 |
| 13 | 88-ZG3-371-010 | DMPR | |
| 14 | 8Z-KM1-202-010 | SHAFT | ,FRAME |
| 15 | 88-ZG4-542-010 | SPR-E | ,DMPR 10 |
| 16 | 8Z-KM3-033-010 | WINDO | W,CD S |
| 17 | 8Z-KM3-035-010 | CABI, | TOP 10S |
| 18 | 8Z-KM3-608-010 | | L 2P (SENS KM3) |
| | | | |
| 19 | 8Z-KM1-204-010 | HLDR, | DECK R10 |
| 20 | 8Z-KM1-201-010 | HLDR, | CD |
| 21 | 8Z-KM3-638-010 | JACK, | DIN 13P |
| 22 | 8Z-KM1-225-010 | HLDR, | REG |
| 23 | 8Z-KM3-036-010 | CABI, | BOTTOM 10S |
| | | | |
| | 8Z-KM3-672-010 | | BLE 30P |
| 25 | 8Z-KM1-232-010 | • | |
| A | 87-B10-260-010 | VTT+2 | .6-6 W/O SLOT BLK |
| В | 8Z-KM1-223-010 | S-SCR | EW,2-5 (BLK) |
| C | 87-B10-255-010 | U+2-3 | W/O CR |
| D | 8Z-KM1-215-010 | S-SCR | EW, M3-5-12 |
| E | 8Z-KM1-224-010 | S-SCR | EW, M3-7-11 |
| F | 87-571-032-410 | | • |
| | 87-B10-244-010 | | W/O BLK |
| H | 87-B10-245-010 | | -4 W/O CR |

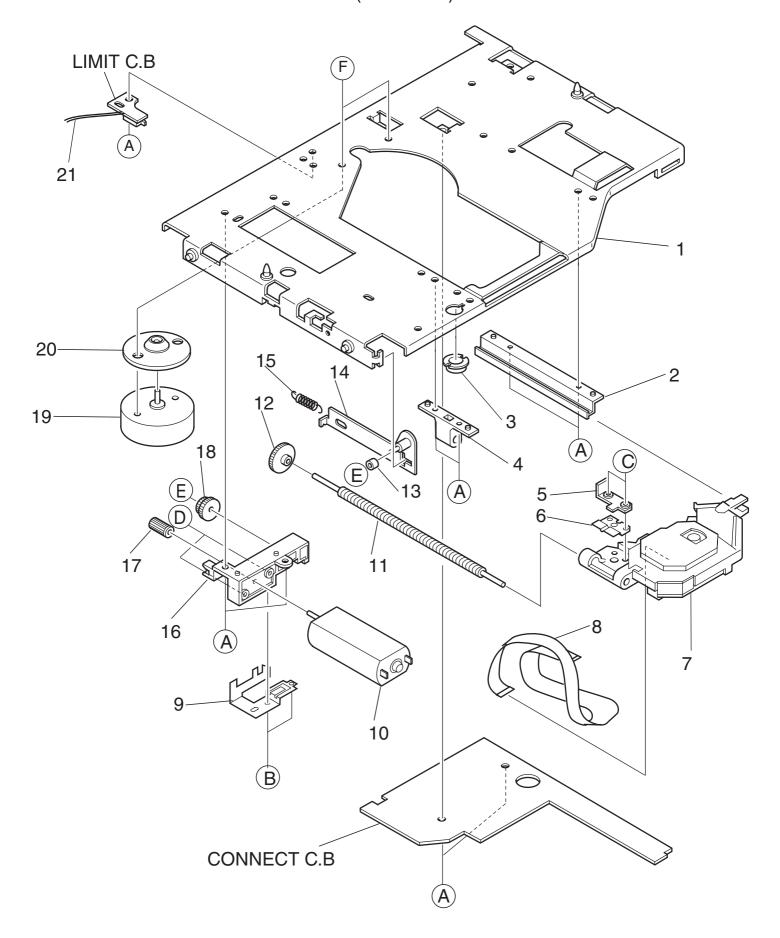
COLOR NAME TABLE

| Basic color symbol | Color | Basic color symbol | Color | Basic color symbol | Color |
|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| В | Black | Ċ | Cream | Ď | Orange |
| G | Green | Н | Gray | L | Blue |
| LT | Transparent Blue | N | Gold | Р | Pink |
| R | Red | S | Silver | ST | Titan Silver |
| Т | Brown | V | Violet | W | White |
| WT | Transparent White | Y | Yellow | YT | Transparent Yellow |
| LM | Metallic Blue | LL | Light Blue | GT | Transparent Green |
| LD | Dark Blue | DT | Transparent Orange | GM | Metallic Green |
| YM | Metallic Yellow | DM | Metallic Orange | | |



CD MECHANISM PARTS LIST 1/2 (8ZG-4 RNF)

| REF. NO. | PART NO. | KANRI | DESCRIPTION | REF. NO. | PART NO. | KANRI | DESCRIPTION |
|----------|----------------|----------|---------------|----------|---------------|---------------------|-----------------|
| | | NO. | | | | NO. | |
| 1 | 88-ZG4-521-210 | PLATE, | SLIT 10 | 26 | 88-ZG3-304-01 | 0 GEAR, E | LV-F |
| 2 | 88-ZG4-513-110 | PLATE, | ELV-R 10 | 27 | 88-ZG3-351-11 | 0 SPR-T, | LEVER LOCK |
| 3 | 88-ZG4-501-110 | CHAS A | SSY,MAIN 10 | 28 | 88-ZG3-274-01 | 0 PLATE, | LOCK SW |
| 4 | 88-ZG3-305-010 | GEAR, E | LV-R | 29 | 88-ZG3-352-01 | 0 SPR-E, | LOCK SW |
| 5 | 88-ZG3-303-010 | GEAR, E | LV | 30 | 88-ZG3-301-01 | 0 GEAR,W | ORM ELV |
| 6 | 88-ZG4-531-010 | SHAFT, | GATA 10 | 31 | 88-ZG3-277-01 | 0 SPR-P, | MAGAZINE |
| 7 | 88-ZG4-512-110 | PLATE, | ELV-F 10 | 32 | 88-ZG4-506-11 | 0 CHAS A | SSY, TOP 10 |
| 8 | 8Z-KM3-625-010 | F-CABL | E,4P (SWITCH) | 33 | 88-ZG4-541-01 | <pre>0 SPR-E,</pre> | EJECT 10 |
| 9 | 88-ZG3-226-010 | LEVER | ASSY,SLD-1 | 34 | 88-ZG3-278-01 | <pre>0 PLATE,</pre> | EJECT |
| 10 | 88-ZG3-313-010 | CAM, SL | D | 35 | 88-ZG4-001-11 | 0 MAGAZI | NE,T 10 |
| 11 | 88-ZG3-002-210 |) MAGAZI | NE,B | 36 | 88-ZG4-514-11 | 0 SPR-P, | TRAY 10 |
| 12 | 88-ZG3-246-010 |) PLATE | ASSY,CKG-R | 37 | 88-ZG3-003-21 | 0 TRAY, | |
| 13 | 88-ZG3-231-010 | LEVER | ASSY, CKG | 38 | 8Z-KM1-214-01 | 0 HLDR, L | ED |
| 14 | 88-ZG3-312-110 | WORM-W | HL,SLD | A | 87-262-545-31 | 0 V+2-2. | 5 |
| 15 | 88-ZG3-221-010 |) HLDR A | SSY, MOT ELV | В | 87-261-031-41 | 0 V+2-2 | |
| 16 | 88-ZG3-311-010 | GEAR, W | ORM SLD | С | 87-B10-258-01 | 0 W-P,2. | 15-3.5-0.5 |
| 17 | 87-A91-054-010 | MOT, FF | -050SK | D | 86-544-437-01 | 0 PW,1.5 | -3.5-0.5 |
| 18 | 88-ZG3-211-110 | CHAS A | SSY, ELV | E | 87-B10-272-01 | 0 W-P,2. | 15-3.5-0.5 SLIT |
| 19 | 88-ZG3-314-010 | GUIDE, | F | F | 87-571-032-41 | 0 VIT+2- | 3 |
| 20 | 88-ZG3-315-210 | GUIDE, | R | G | 87-067-869-01 | 0 V+1.7- | 8 HL BLK |
| 21 | 88-ZG3-236-010 | ARM AS | SY, | н | 87-067-310-01 | 0 PW,2.1 | -4-0.15 C |
| 22 | 88-ZG3-266-110 | CLAMP | ASSY, | I | 87-262-545-31 | 0 V+2-2. | 5 |
| 23 | 88-ZG3-276-310 | SPR-P, | CLAMP | | | | |
| 24 | 88-ZG3-275-010 | LEVER, | SLD-2 | | | | |
| 25 | 88-ZG3-302-010 | WORM-W | HL,ELV | | | | |



CD MECHANISM PARTS LIST 2/2 (8ZG-8 RNF)

| REF. NO. | PART NO. | KANRI | DESCRIPTION |
|----------|----------------|-----------|---------------------|
| | | NO. | |
| 1 | 88-ZG8-401-210 | CHAS A | ASSY, MECHA |
| 2 | 88-ZG8-425-010 | GUIDE, | , PICKUP |
| 3 | 88-ZG3-317-010 | CLR, EI | LV |
| 4 | 88-ZG8-426-010 |) HLDR, I | LEAD |
| 5 | 88-ZG8-428-110 |) LEVER | , PUSH SW |
| _ | | | |
| | 88-ZG8-412-010 | | , PICKUP |
| | 87-A91-630-010 | | P,KSS-710A |
| | | | LEX PICK UP (AK) |
| | 88-ZG8-411-110 | - | |
| 10 | 87-A91-054-010 | MOT, FI | F-050SK |
| 11 | 88-ZG8-431-010 |) SHAFT | TEAD |
| | 88-ZG8-431-010 | | MECHA 3 |
| | 88-ZG3-332-010 | GEAR, | MECHA 3 EVER ATK |
| | | | |
| | 88-ZG3-256-110 | | ASSY, ATK-F |
| 15 | 88-ZG3-354-010 | SPR-E, | LEVER ATK |
| 16 | 88-ZG8-427-010 | HLDR, | MOT MECHA |
| 17 | 88-ZG8-422-010 | GEAR, | MECHA 1 |
| 18 | 88-ZG8-423-010 | GEAR, | MECHA 2 |
| 19 | 87-A90-926-010 | MOT, RI | F-3L0PA |
| 20 | 88-ZG8-421-010 | TURN 7 | TABLE |
| | | | |
| | 8Z-KM3-624-010 | | |
| | 87-571-032-410 | | |
| В | 87-352-529-310 | VT2+1. | .7-4.0 BLK |
| C | 88-ZG8-432-010 |) S-SCRI | EW,V+1.7-5 IB LOCK |
| D | 87-262-547-310 | V+2-3 | BLK |
| R | 87-078-018-010 |) PW 1.5 | 55-3.6-0.25 |
| | 87-262-523-310 | | |
| | | | |

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表) **AIWA CO.,LTD.** 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

9630469 0251431 Printed in Singapore